

ULTRA-SECURE, ULTRA-EFFICIENT CRYPTOGRAPHIC SYSTEM

ABSTRACT OF THE DISCLOSURE

[0145] A method and system for achieving the
5 cryptographic objectives of data encryption and/or
key expansion/generation by utilizing a short,
shared, secret seed key between two parties that is
extended to a long extended key which, in turn, is
used to select one of many possible quantum and/or
10 classical signal sets. The signal strength of each
signal in the signal set is adjusted in accordance
with the number of signal sets to obtain the
necessary security level. The system operates with
whatever signal quantum noise and other system
15 noises are present while preserving security of the
cryptographic system. The signal quantum noise and
system noises protect both the data and the key
from attackers.